

1 2 3 4

A

B

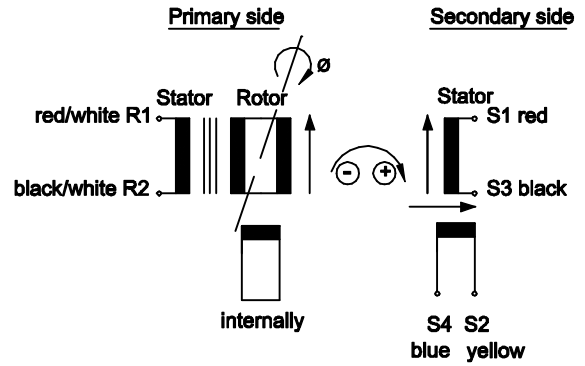
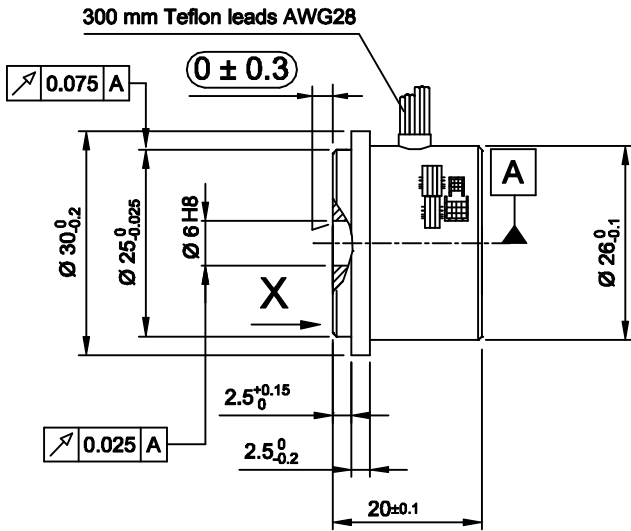
C

D

E

F

Diese technische Unterlage ist unser Eigentum. Wir behalten uns alle Rechte vor. Vervielfältigung, Verwendung oder Mitteilung an Dritte ohne unsere vorherige Zustimmung verpflichtet zu Schadenersatz und kann strafrechtliche Folgen haben.



Input : $E(R1-R2) = E \sin(\omega t)$
 Output : $E(S1-S3) = Tr \times E(R1-R2) \cos \theta$
 $E(S2-S4) = Tr \times E(R1-R2) \sin \theta$
 Tr = Transformation ratio

Positive counting direction : Rotor cw as viewed (X →)

| | | |
|--------------------------|----------------------------|----------------------------|
| Primary side | R1 - R2 | R1 - R2 |
| Pole pairs | 1 | 1 |
| Transformation ratio | 0,5 ± 10% | 0,5 ± 10% |
| Input voltage | 7 V | 7 V |
| Input current | 65 mA | 35 mA |
| Input frequency | 5 kHz | 10 kHz |
| Phase shift | 9° ± 3° | -2° ± 3° |
| Null voltage | 30 mV max. | 30 mV max. |
| Impedance | | |
| Zro | 53 j 105 Ohm | 85 j 175 Ohm |
| Zrs | 52 j 85 Ohm | 70 j 150 Ohm |
| Zso | 78 j 126 Ohm | 115 j 235 Ohm |
| Zss | 75 j 100 Ohm | 90 j 195 Ohm |
| D.C. resistance | | |
| Rotor | 22 Ohm ± 10% | 22 Ohm ± 10% |
| Stator | 77 Ohm ± 10% | 77 Ohm ± 10% |
| Accuracy | ±10' | ±10' |
| Accuracy ripple | 1' max. | 1' max. |
| Operating temperature | -55° C ... +155° C | -55° C ... +155° C |
| Max. permissible speed | 20.000 rpm | 20.000 rpm |
| Shock (11 ms) | <= 10.000 m/s ² | <= 10.000 m/s ² |
| Vibration (10 to 500 Hz) | <= 500 m/s ² | <= 500 m/s ² |
| Hi-pot housing/winding | 500 V min. | 500 V min. |
| Hi-pot winding/winding | 250 V min. | 250 V min. |
| Rotor | Completely impregnated | Completely impregnated |
| Stator | Windings impregnated | Windings impregnated |

| | | | | | | | | | |
|-------|----------|----------|------|------------------------------|--|---|--|---|--|
| h) | | | | Datum | | Name | | <h1>Resolver</h1> <h2>RE-10-1-C64</h2> | |
| g) | | Bearb. | | 24.11.03 | | Tamas | | | |
| f) | | Gepr. | | 24.11.03 | | Pielok | | | |
| e) | | Norm | | | | | | | |
| d) | | Kom.-N°: | | | | | | | |
| c) | | | | | | Zeichnungs-N°: RE-10-1-C64 EDV-N°: 5906205 | | Maßstab 1:1 O-Format A4 | |
| b) | | | | LTN LTN Servotechnik GmbH | | | | | |
| a) | | | | | | | | | |
| Zust. | Änderung | Datum | Name | Datei: | | | | | |